

Medical Tribune

© 1974, Medical Tribune, Inc.

Vol. 16, No. 2

world news of medicine and its practice—fast, accurate, complete

and Medical News

Wednesday, January 15, 1975

making
rounds
at
press
time

REVISED REPORT on X-ray exposures, to be published in the Bureau of Radiological Health Bulletin in February or March, will show more than 50 per cent reduction in prior estimates of "gonadal and dentically significant" X-ray exposure levels, according to John C. North, bureau director. His estimates of 55 millions in 1964 and 36 in 1970 are based on errors in dose model and computer program, he said.

BOSTON HOSPITAL MERGER Three major Harvard teaching hospitals have merged into one hospital corporation to be known as Affiliated Hospitals Center. Merging are Boston Hospital for Women, Peter Bent and Robert B. Brigham Hospitals. New center, to be built on parking lot adjacent to PBB, will have 640 acute beds, 40 skilled nursing and rehab beds.

INFLUENZA DEATHS may rise to an "order of magnitude" of 200-400 excess cases per week this winter, according to the Center for Disease Control. This tentative prediction is based on confirmed outbreaks in Georgia, western Tennessee, northern Michigan and eastern New York. Dr. Charles Hoke, CDC Medical Epidemiologist, said the disease incidence is still "geographically sporadic," but if the disease pattern follows that of the epidemic winter, 1971-72, weekly deaths could go into the excess-of-400 range for 6 to 8 weeks.

RETIRING TO N. CAROLINA — Dr. Adrian H. Scolten of Portland, Me., who once ran against Margaret Chase Smith for U.S. Senator, and was an early advocate of 50 mph speed limit. He is now 83.

Massive Glucose Shown Lifesaving in Shock

By NATHAN HORWITZ
Medical Tribune Staff

thal doses of *E. coli* endotoxin "all survived," while most untreated animals died.

Even when glucose infusions were started after the animals became severely hypoglycemic, the treated group survived, "but no animal survived that did not receive exogenous glucose," said Leonard B. Hinshaw, Ph.D., Research Professor of Surgery and Professor of Physiology and Biophysics.

In detailing the findings, Dr. Hinshaw said the glucose studies were started following his team's unexpected observation that hypoglycemia developed in most animals during the later stages of endotoxin shock.

"In all experimental shock studies hitherto, all of the animals died. We asked ourselves what would happen if we simply infused glucose during the shock state and gave just enough to keep up with the animal's requirements," Dr. Hinshaw related.

Thirty-five anesthetized animals received I.V. infusions of *E. coli* endotoxin (1.0-1.5 mg./kg.). The animals were evaluated for an initial five-hour period and all survivors were observed

Continued on page 12

Resignations Renew Call for Fed. Health Dept.

Medical Tribune Staff

WASHINGTON—The resignation of two of the nation's top health officials within one week has brought renewed calls for an independent federal Department of Health and an end to the "politicization of science."

The demands came from Nobelists, lawmakers and medical leaders after Drs. Charles C. Edwards, Assistant Secretary of Health and Robert S. Stone, Director of the National Institutes of Health, announced here that they were leaving their posts. Dr. Stone's resignation is the second from the NIH top spot in 18 months.

"The turnstile tenure of those in top positions in the nation's health programs emphasizes the need for a separate National Department of Health, independent of the Department of Health, Education and Welfare."

Continued on page 35



Controversy Continuing Over XYY Screening

Medical Tribune Report

BOSTON—Despite a Harvard Medical School committee's conclusion that a program screening newborn boys for chromosome abnormalities should be continued, criticism of the ethics and good scientific practice of the project has not let up.

Critics of the project called the recommendation from the Standing Com-

Continued on page 6

Adriamycin Combination Gets 55% Sarcoma Response Rate

BY FRANCES GOODNIGHT
Medical Tribune Staff

HOUSTON—"Encouraging results" in patients who have metastatic soft-tissue and bony sarcomas are being achieved by treatment with adriamycin

in combination with other anticancer drugs, Dr. Jeffrey A. Gottlieb reported here.

Dr. Gottlieb, chief of the chemotherapy service at the University of Texas M.D. Anderson Hospital and Tumor Institute, said that the most successful combination tried so far at his center, in collaboration with other institutions of the Southwest Oncology Group, has been adriamycin; cyclophosphamide; imidazole carboxamide (DIC), and vincristine.

This four-drug regimen produced an over-all response rate of 55 per cent in 136 patients having various types of sarcoma, the investigator told a clinical conference sponsored by Anderson Hospital and the American Cancer Society. Complete remissions occurred in 14 per cent.

By comparison, the over-all response rate for adriamycin alone has been 31 per cent, while adriamycin-DIC and adriamycin-DIC-vincristine each yielded an over-all response rate of 42 per cent, with complete response rates of 11 per cent and 9 per cent, respectively.

Survival times have also improved

In Infection Control Today

(page 13)

Don't miss—

- Upward mobility of the anaerobes: from symbiosis to parasitism in the respiratory tract

And are you also missing endocarditis?

- Staph pneumonia—tip of the iceberg. Another in our exclusive "My Most Difficult Infection" series.

Compare notes—

- With three specialists who discuss: How I Treat Otitis Media

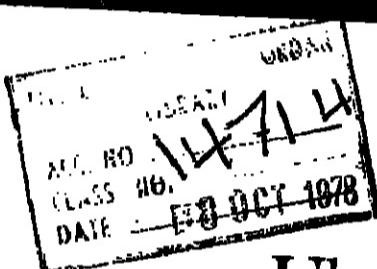
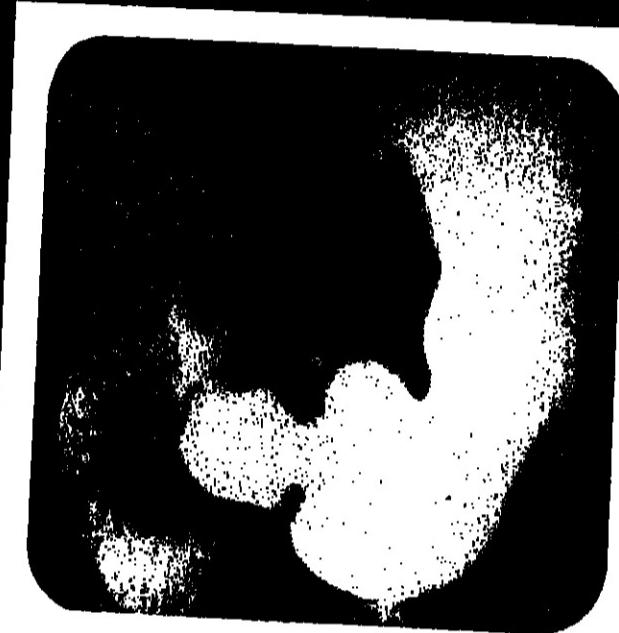
Keep up with the latest—

- On respiratory failure and on hypogammaglobulinemia: in our On the Infection Front

Continued on page 39

The Upper Functional G.I. Disorder

The Pseudo-ulcer



Ulcer-like symptoms: no G.I. pathology

The patient is convinced it's an ulcer. However, symptoms are not quite typical, and x-ray findings are negative. These findings and the results of additional diagnostic procedures exclude an organic basis for the patient's complaints. A diagnosis of "upper functional gastrointestinal disorder" is made, which is supported by the fact that episodes of painful symptoms coincide with episodes of excessive anxiety, as indicated by the history.

It may be useful to explain to the patient the mechanism by which emotions upset normal G.I. functioning, resulting in hypersecretion and hypermotility and thus causing such symptoms as nausea and epigastric pain. In upper functional gastrointestinal disorders, counseling by the primary physician can often help the patient understand how excessive anxiety may cause flare-ups of G.I. symptoms.

A disproportionate number of patients seen by the general practitioner suffer from functional disorders, as do more than half of those seen by the gastroenterologist.* Where milder cases may respond to counsel-

ing alone, if symptoms are severe and disabling to any degree, a suitable regimen may include medication to reduce the symptoms and the excessive anxiety that often provokes these distressing symptoms. In these cases, Librax as an adjunct can greatly contribute to the course of therapy. Its dual action can offer relief of both painful symptoms and excessive anxiety, because each capsule contains 5 mg chlordiazepoxide HCl and 2.5 mg clidinium Br. The anti-anxiety action of Librium® (chlordiazepoxide HCl) makes Librax exceptional

among drugs for certain gastrointestinal disorders associated with excessive anxiety; the clidinium bromide (Quarant™) component furnishes dependable antiseretary-antispasmodic action. Dosage is flexible; it may be adjusted according to your patient's requirements within the range of 1 or 2 capsules three or four times daily, up to 8 capsules daily in divided doses.

*Rom HF, Brannick TL: Orientation and mechanism of functional disorders: clinico-physiologic correlation, chap. 128, in *Gastroenterology*, edited by Bockus HL, Philadelphia, WB Saunders Company, 1965, p. 1116.

An adjunct in anxiety-related upper functional G.I. disorders

Librax®

Each capsule contains 5 mg chlordiazepoxide HCl and 2.5 mg clidinium Br.

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Symptomatic relief of hypersecretion, hypermotility and anxiety states associated with organic or functional gastrointestinal disorders; and as adjunctive therapy in the management of peptic ulcer, gastritis, duodenitis, irritable bowel syndrome, spastic colitis, and mild ulcerative colitis.

Contraindications: Patients with glaucoma; prostatic hypertrophy and benign bladder neck obstruction; known hypersensitivity to chlordiazepoxide hydrochloride and/or clidinium bromide.

Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants. As with all CNS-depressing drugs, caution patients against hazardous occupations requiring complete mental alertness (e.g., operating machinery, driving). Though physical and psychological dependence have rarely been reported on recommended dose, use caution.

In administering Librium (chlordiazepoxide hydrochloride) to known addiction-prone individuals or those who might increase dosage, withdraw symptoms (including convulsions), following discontinuation of the drug and similar to those seen with barbiturates, have been reported. Use of any drug in

pregnancy, lactation, or in women of childbearing age requires that its potential benefits be weighed against its possible hazards. As with all anticholinergic drugs, an inhibiting effect on lactation may occur.

Precautions: In elderly and debilitated, limit dosage to minimal effective amount to prevent development of ataxia, oversedation or confusion (not more than two capsules per day initially; increase gradually as needed and tolerated). Though generally not recommended, if combination therapy with other psychotropic seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentially drug such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, sedation and acute rage) have been reported in psychiatric patients. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects of blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically.

Adverse Reactions: No side effects or manifestations not seen with either compound alone have been reported with Librax. When chlordiazepoxide hydrochloride is used alone, drowsiness

Roche Laboratories
Division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110



Wednesday, January 15, 1975

MEDICAL TRIBUNE

Serum-Lipids Mass Screening Test Devised

Medical Tribune Report

DALLAS—A simple, rapid and inexpensive mass screening test to detect total serum lipids in casual samples of blood from non-fasting subjects has been developed by teams of investigators at Rockefeller University and Albert Einstein College of Medicine, New York.

The test, based on a simplified version of the heparin precipitation method, has proved reliable in primary screening of 126,085 apparently healthy subjects, according to Dr. William Insull, Jr., associate director of the Center for Prevention of Premature Atherosclerosis, Rockefeller University.

The procedure's simplicity is such

that one technician, using automated equipment, can analyze from 600 to 1,200 samples a day, employing reagents costing less than one cent per test, Dr. Insull told the annual meeting of the American Heart Association.

A single technician, he reported, was responsible for analyzing the entire series of more than 126,000 subjects in the first year and identifying 6,117 persons with high serum lipoprotein levels.

Followup examination of the high-lipid subjects by traditional methods, the investigator said, showed that 10 per cent had hypercholesterolemia, 36 per cent hypertriglyceridemia, and 26 per cent hyperlipidemia. Twenty-seven



The new test to detect total serum lipids in blood samples from non-fasting subjects allows one technician, using automated equipment, to analyze from 600 to 1,200 samples a day, employing reagents costing less than 1 cent per test.

per cent had serum lipids within normal limits, defined as cholesterol and triglyceride levels within the limits seen in all except the upper five percentiles of the population.

Turbidity Readily Assayed

The heparin turbidity test, developed by the Einstein group, measures the lipid suspension formed by the reaction of serum lipoproteins to heparin and calcium chloride. The degree of turbidity is proportional to the level of lipoproteins and is readily assayed by a spectrophotometer. The test was developed by Drs. Meyer Burstein, Howard A. Eder and Harold R. Schonick of Albert Einstein. The latter two

also collaborated in the screening study of the simplified version of the method.

Dr. Insull commented that the new test offers results "comparable to those obtained for other populations using traditional methods."

"This test makes practical the routine and inexpensive screening of large numbers of apparently healthy subjects to detect those with high serum lipid levels and an increased risk of coronary heart disease—persons for whom treatment may be instituted before clinical disease develops."

Other collaborators were Dr. Robert L. Hirsch of the New York Blood Center, and Elaine Barzellator of Rockefeller University.

index

CLINICAL NEWS NOTE: "Right now, it's almost as if anyone wanting to do an investigation automatically must be thought to be unethical, and from that point on he must prove himself ethical." (Dr. Stanley Walzer, see pg. 6.)

Medicine: pgs. 1, 3, 12, 29, 33, 35, 39

Massive glucose prevents deaths in endotracheal shock dogs 1

Adriamycin combination encouraging in metastatic sarcomas 1

Mass screening now possible in serum lipid profiles 3

Mitral valve calcification seen in subacute stenosis 29

Stilting club for blind developed by blind Swiss physiotherapist 39

Surgery: Neuroleptic analgesia used in open heart surgery with good results 39

Pediatrics: pgs. 1, 3, 6

Controversy continues over Harvard XYY screening program 1

Leukemia therapy continuance after three years does not affect patients' status 3

Ob/Gyn: pgs. 1, 6

Some questions and answers about the XYY karyotype 6

Medical Education: Oral exam substituted for written one in U. Miami surgery 33

feature index

Editorials: Letters to Tribune 11

Cartoons 11, 39

One Man 11, 33

Economic Analysis 33

Medicine on Stamps 35

Immuneria Medical 39

Sports Report 39

Medical Tribune

CHRIS WOODBURY, Ph.D.

General Manager

HARRY HENDERSON, RICHARD GUINER, M.D.

Editor-in-Chief Associate Editor

R. S. CRIMSHAW, JR. NATHAN HORWITZ

Executive News Editor Special News Editor

WILLIAM PRIFTIS NIKKI FROST

Art Supervisor Picture Editor

ARTHUR M. SACKLER, M.D.

International Publisher

Advisory Board

JOHN ADRIANI, M.D. RENE J. DUBOS, PH.D.

JULES H. MASSERMAN, M.D.

BERNARD LOWN, M.D.

ALBERT B. SADIN, M.D.

ALTON OCHSNER, M.D.

ROBERT A. CHADBROOK, M.D.

LEE G. RIOLER, M.D.

880 Third Avenue, New York, N.Y., 10022 • Telephone: 421-4000

Circulation audited by Business Publications Audit of Circulation, Inc.

MEDICAL TRIBUNE is published each

Wednesday except on Jan. 30, May 29,

July 31, and Oct. 30, by Medical Tribune,

Inc., 880 Third Ave., New York, N.Y., 10022. Application to mail at controlled circulation rate pending at Vineland, N.J. 08360.

Subscription \$25.00, Students \$7.50.

ECTOPIC BEAT

The A.M.A. in *American Medical News* announced "six new, exciting A.M.A. educational opportunities in six fantastic settings!" The fifth on was listed as "Peru-Chile-Brasil," and that's what we call a really fantastic setting, if a little on the hot side.

Reliable diagnosis can not be made on the basis of the initial white count, when there is evidence of serious or im-

Only one antihypertensive provides the three preferred modes of action...

Ser-Ap-Es®

reserpine 0.1 mg
hydralazine hydrochloride 25 mg
hydrochlorothiazide 15 mg

INDICATIONS

Expert review of this drug by the National Academy of Sciences-National Research Council and/or other information, FDA has classified the indications as follows: Effective: Hypertension. (See box warning.)

WARNING

This fixed combination drug is not indicated for initial therapy of hypertension. Hypertension requires therapy titrated to the individual patient. If the fixed combination regimen is chosen, it should be used only if its use may be more convenient in patient management. The treatment of hypertension is not static, but must be reevaluated as conditions in each patient warrant.

CONTRAINDICATIONS

Reserpine: Known hypersensitivity; mental depression (especially with suicidal tendencies); active peptic ulcer; ulcerative colitis; electroconvulsive therapy.

Hydralazine: Hypersensitivity; coronary artery disease; malignant vascular heart disease. Hydrochlorothiazide: Anuria; hypersensitivity to this or other sulfonamide-derived drugs. The routine use of diuretics in an otherwise healthy pregnant woman with or without mild edema is contraindicated and possibly hazardous.

WARNINGS

Reserpine: Use with extreme caution in patients with a history of mental depression. Discontinuation after long-term dependency may result in inescapable feelings of despair, impotence, or self-deprecation. Drug-induced depression may persist for several months after drug withdrawal and may be severe enough to result in suicide. MAbs should be avoided or used with extreme caution.

Hydralazine: Chronic administration of doses over 400 mg daily may produce an arthritis-like syndrome simulating acute systemic lupus erythematosus. This may occur at lower doses. Long-term treatment with steroids may be necessary and residue have been detected many years later. CBC's, E.E.G. cell preparations, and liver function tests should be done at least once a month and periodically during prolonged therapy with hydralazine or if the patient develops any unexplained signs or symptoms. Use MAbs with caution.

Hydrochlorothiazide: Use with caution in severe renal disease. In patients with renal disease, thiazides may precipitate azotemia. Cumulative effects of the drug may develop in patients with impaired renal function.

The thiazides should be used with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte imbalance may precipitate hepatic coma.

The thiazides may be additive or potentiating of the action of other antihypertensive drugs. Potentiation occurs with ganglionic or peripheral adrenergic blocking drugs.

Sensitivity reactions are more likely to occur in patients with a history of allergy or bronchial asthma.

The possibility of exacerbation or activation of systemic lupus erythematosus has been reported.

Reserpine: The safety of reserpine for use during pregnancy has not been established; therefore, the drug should be used in pregnant patients or women of childbearing potential only when, in the judgment of the physician, it is essential to the welfare of the patient.

Hydralazine: The drug should be used only when, in the judgment of the physician, it is deemed essential to the welfare of the patient.

Hydrochlorothiazide: Use with caution in pregnant women. Thiazides cross the placental barrier and appear in maternal breast milk.

Hydralazine: The drug should be used only when, in the judgment of the physician, it is deemed essential to the welfare of the patient.

Hydralazine: Cautioning against use in that the potential benefits of the drug be weighed against its possible hazards to the fetus. These hazards include fetal or neonatal jaundice, thrombocytopenia, hypoglycemia, hypotension, and central nervous system reactions which have occurred in the adult.

Nursing Mothers:

Thiazides cross the placental barrier and appear in cord blood and breast milk.

Reserpine: Use cautiously in patients with history of peptic ulcer, ulcerative colitis, or gallstones (bilious colic may be precipitated).

Exercise caution when treating hypertension in patients with peptic ulcer. Use cautiously with diabetics and quinidines.

Intracorporeal hypertension has occurred in hypertensive patients receiving reserpine preparations, but withdrawal of reserpine does not reverse the intracorporeal hypertension markedly in such patients.

Hydralazine: Use cautiously in suspected coronary artery or other cardiovascular disease, cerebral vascular accidents, and advanced arteriosclerosis. Use with caution in patients with glaucoma. Intracorporeal hypertension may occur in asthmatics patients in hot weather.

Medication such as digitalis may also influence

In treating hypertension, current clinical practice stresses the importance of achieving control of three basic homeostatic mechanisms: fluid volume, sympathetic activity, and arteriolar tone.

Initial treatment most frequently employs one of the thiazides.²⁻⁷

But if blood pressure resists fluid volume control with thiazides, a second agent with a different mode of action, such as a sympathetic inhibitor (reserpine), may be gradually added.²⁻⁴

Many hypertensives, however, may resist control even with a two-drug regimen.

In such cases, the crucial "third step" in combined therapy is frequently control of arteriolar tone with hydralazine.²⁻⁴

Ser-Ap-Es combines all three steps in a single tablet—all the medication many hypertensives will need.

And when the dosage of each component corresponds to the dosages pre-established by individualized titration, Ser-Ap-Es may prove more convenient and more economical.

Doses of each component in Ser-Ap-Es are lower than when used alone.

Note: Use Ser-Ap-Es cautiously in patients with advanced renal damage or cerebrovascular accident. Discontinue at first sign of mental depression.

Ser-Ap-Es is the only antihypertensive agent that provides the three basic drugs used in two published VA cooperative studies.^{8,9}

References: 1. Freis ED: Hypertension: a controllable disease. *Clin Pharmacol Ther* 19:635-642, 1972. 2. Bernstein AD, Frazee RG: Controlling drug therapy in too many. *Emergency Med* 5:144-185. 1973. 3. Bernick AD, Frazee RG: Controlling drug therapy in too many. *Emergency Med* 5:144-185. 1973. 4. Harvey RA, John RJ, Owens AH, et al (eds): *The Principles and Practice of Internal Medicine*. New York, McGraw-Hill, 1972, pp 331-334. 6. Gilford RW: Drugs for arterial hypertension. In: *Modell W (ed): Drugs of Choice, 1972-1973*. St Louis, CV Mosby Co., 1972, pp 380-393. 7. Sellers AM, Iskowitz HD, Indaude MD: Systemic arterial hypertension. In: *Modell W (ed): Drugs of Choice, 1972-1973*. St Louis, CV Mosby Co., 1972, pp 380-393. 8. Feierman, 1971, vol II, pp 934-943. 9. Effect of treatment on morbidity in hypertension. II. Results in patients with diastolic blood pressures averaging 90 through 114 mm Hg. Veterans Administration Cooperative Study Group on Antihypertensive Agents. *JAMA* 231:1143-1152, 1970.

Peripheral neuritis, evidenced by paresthesias, numbness, and tingling, has been observed.

Published evidence suggests an antipruritic effect and addition of pyridoxine to the regimen of symptoms.¹⁰

Reserpine: Use cautiously in patients with history of peptic ulcer, ulcerative colitis, or gallstones (bilious colic may be precipitated).

Exercise caution when treating hypertension in patients with peptic ulcer. Use cautiously with diabetics and quinidines.

Intracorporeal hypertension has occurred in

hypertensive patients receiving reserpine preparations, but withdrawal of reserpine does not reverse the intracorporeal hypertension markedly in such patients.

Hydralazine: Use cautiously in suspected coronary artery or other cardiovascular disease, cerebral vascular accidents, and advanced arteriosclerosis.

Medication such as digitalis may also influence

serum electrolytes. Warning signs are dryness of mouth, thirst, weakness, tachycardia, muscular fatigue, hypotension, oliguria, or tachycardia, and gastrointestinal disturbances such as nausea or vomiting.

Hypokalemia may develop with thiazides as with any other potent diuretic, especially during brief diureses, when severe cirrhosis is present, or with concomitant administration of steroids or ACTH.

Interference with adequate oral intake of electrolytes will also contribute to hypokalemia.

Digitalis therapy may exaggerate metabolic acidosis.

Any chloride deficit is generally mild and usually does not require specific treatment except under extraordinary circumstances (e.g. in liver disease).

Hydralazine: Use cautiously in suspected coronary artery or other cardiovascular disease, cerebral vascular accidents, and advanced arteriosclerosis.

Medication such as digitalis may also influence

Only Ser-Ap-Es combines control of fluid volume with hydrochlorothiazide...

Hydrochlorothiazide provides a modest antihypertensive effect through control of extracellular fluid volume, and potentiates the activity of other antihypertensive drugs.⁵⁻⁷

(a) Symbolized reduction in circulating fluid volume

plus control of sympathetic activity with reserpine...

Reserpine decreases blood pressure by interfering with the release of norepinephrine at peripheral sympathetic neuroeffector sites.⁵⁻⁷

Sympathetic inhibition also produces a central sedative effect especially useful in management of the stress-reactive patient.

(b) Schema of norepinephrine depletion at sympathetic nerve ending

plus direct relaxation of arteriolar smooth muscle with hydralazine...

The unique action of hydralazine lowers blood pressure through direct arteriolar vasodilation to reduce peripheral resistance.⁵⁻⁷ The decrease in arteriolar resistance is accompanied by maintenance of regional vascular flow, making hydralazine particularly valuable for patients with slightly impaired renal flow.⁷

(c) Diagram of relaxed arteriole

appropriate therapy is water restriction rather than administration of salt, especially in rare instances when the hyponatremia is life-threatening. In actual salt depletion, appropriate replacement is the therapy of choice.

Transient elevations in plasma calcium may occur with hydralazine, particularly in those with hyperthyroidism. Pathological changes in the parathyroid gland have been reported in a few patients on prolonged thiazide therapy.

Hydralazine may occur or frank gout may be precipitated in certain patients. Insulin requirements in diabetic patients may be increased, decreased, or unchanged. Latent diabetes may be manifested by glycosuria, polyuria, polydipsia, and nocturia.

Any chloride deficit is generally mild and usually does not require specific treatment except under extraordinary circumstances (e.g. in liver disease).

Hydralazine may cause syncope, purpura, and other hematological reactions.

Central nervous system reactions.

Cardiovascular reactions.

Gastrointestinal reactions.

Genitourinary reactions.

Endocrine reactions.

Other reactions.

Is not sufficient to preclude effectiveness of the pressor agent for therapeutic use.

Withhold drug from use if onset of progressive renal impairment, constipation, edema, weight gain, breast engorgement, pseudolactation, gynecomastia, rarely water retention with edema in hypertensive patients.

Hydralazine may decrease serum PBI levels without signs of thyroid disturbance.

ADVERSE REACTIONS

Central Nervous System: Hyporesponsiveness;

nausea, vomiting; anesthesia; diarrhea.

Cardiovascular: Angina pectoris, tachycardia, lachrymation; flushing, lacrimation; conjunctivitis.

Pulmonary: Cough, bronchitis, pharyngitis.

Gastrointestinal: Diarrhea, constipation.

Genitourinary: Impotence.

Endocrine: Hypoglycemia.

Other: Rash, pruritus, urticaria.

Is not sufficient to preclude effectiveness of the pressor agent for therapeutic use.

Withhold drug from use if onset of progressive renal impairment, constipation, edema,

weight gain, breast engorgement, pseudolactation,

gynecomastia, rarely water retention with edema in hypertensive patients.

Hydralazine may decrease serum PBI levels without signs of thyroid disturbance.

ADVERSE REACTIONS

Central Nervous System: Hyporesponsiveness;

nausea, vomiting; anesthesia; diarrhea.

Cardiovascular: Angina pectoris, tachycardia, lachrymation; flushing, lacrimation; conjunctivitis.

Pulmonary: Cough, bronchitis, pharyngitis.

Gastrointestinal: Diarrhea, constipation.

Genitourinary: Impotence.

Endocrine: Hypoglycemia.

Other: Rash, pruritus, urticaria.

Is not sufficient to preclude effectiveness of the pressor agent for therapeutic use.

Withhold drug from use if onset of progressive renal impairment, constipation, edema,

weight gain, breast engorgement, pseudolactation,

gynecomastia, rarely water retention with edema in hypertensive patients.

Hydralazine may decrease serum PBI levels without signs of thyroid disturbance.

ADVERSE REACTIONS

Central Nervous System: Hyporesponsiveness;

nausea, vomiting; anesthesia; diarrhea.

Cardiovascular: Angina pectoris, tachycardia, lachrymation; flushing, lacrimation; conjunctivitis.

Pulmonary: Cough, bronchitis, pharyngitis.

Gastrointestinal: Diarrhea, constipation.

Genitourinary: Impotence.

Endocrine: Hypoglycemia.

Other: Rash, pruritus, urticaria.

Is not sufficient to preclude effectiveness of the pressor agent for therapeutic use.

Withhold drug from use if onset of progressive renal impairment, constipation, edema,

weight gain, breast engorgement, pseudolactation,

gynecomastia, rarely water retention with edema in hypertensive patients.

Hydralazine may decrease serum PBI levels without signs of thyroid disturbance.

ADVERSE REACTIONS

Central Nervous System: Hyporesponsiveness;

nausea, vomiting; anesthesia; diarrhea.

Cardiovascular: Angina pectoris, tachycardia, lachrymation; flushing, lacrimation; conjunctivitis.

Pulmonary: Cough, bronchitis, pharyngitis.

Gastrointestinal: Diarrhea, constipation.

Genitourinary: Impotence.

Endocrine: Hypoglycemia.

Other: Rash, pruritus, urticaria.

Is not sufficient to pre

Report on XYY Screening Held Whitewash

Continued from page 1
mittee on Medical Research a "whitewash."

In a report to the faculty, the committee stated that, in its opinion, Dr. Stanley Walzer, Assistant Professor of Psychiatry at Harvard, has behaved ethically and sensitively in the way in which he has conducted his

See Editorials, Page 11.
Also, One Man . . . and Medicine, Page 33.

program of examining the incidence of extra "Y" and "X" chromosomes in newborn boys, and studying the correlation, if any, of the abnormalities with behavior.

Because several of its members were concerned that the possible risks of the study might outweigh its benefits, the Harvard committee also announced that it has asked Dr. Walzer to meet with it to discuss changes that may lessen public criticism.

Dr. Walzer has been under fire from a group of young Boston Scientists, calling themselves Science for the People, who have charged that boys were found to have XYY chromosome abnormality will be stigmatized by life for possessing what the public has come to know as the "criminal chromosome."

The spokesman for the group, Jonathan Beckwith, Ph.D., a Harvard microbiologist, said that the findings of the Medical Research Committee, "failed to deal in any way with the substantive objections to the XYY study which we have raised."

'Simply a Whitewash'

"The present recommendations are simply a whitewash of an embarrassing situation; the objections to the study stand unanswered and a source of concern, not only within the Harvard community, but among the general public as well."

Dr. Beckwith and his colleagues—scientists from Harvard and the Massachusetts Institute of Technology—made their charges formally to the medical school last April. They have accused the study of being unscientific on the grounds that parents who are anxious about the effect of the XYY chromosome variation are bound to treat their youngsters in a negative way.

This, they say, is likely to increase the incidence of behavior problems, skewing the results of the study, and harm the child.

The study is unethical, they claim, because of the danger of stigmatizing the boy, because there is no therapy for chromosomal abnormalities, hence no clear-cut benefits to the families participating.

The group has also criticized the research project for manner in which mothers-to-be were asked to consent to the screening. Until recently, the woman was asked to sign the consent form when she was admitted to the hospital, often when she was in labor. The form asked only for permission to test the infant. When an abnormality was found, the parents were informed and asked to participate in the study.

Since the project has been underway, the form has been rewritten and

now fully explains the investigation and its implications. It is given to the mother the day after the delivery and is explained by a member of the research staff.

The Boston Hospital for Women, where the work is being done, mails all the incoming patients a "Bill of Rights," which points out that she is under no obligation to participate in any study, and if asked to do so, she should consult her physician for guidance.

"I believe that parents have a right to know of any chromosome variations and they have a right to watch their child, to make changes in his life, to enrich it anyway they can, and to help him in whatever way is possible," he said.

In Contact With Families

"In a study like this, in which you share genetic information with people, one must be available to them in the future when questions and problems may arise. This particular experimental design allows for that."

Dr. Walzer was referring to the fact that he spends two or three hours every month with each family; at this time, the child is tested and observed. He maintains that he is available for telephone consultation at any time.

This aspect of the study was also criticized by Dr. Beckwith and his group. Because the investigation includes the promise of assistance and counseling in the event that the extra chromosome results in behavior disorders, they contend that worried parents may agree to participate under duress—the offer of professional help.

Dr. Walzer, who is also senior associate in genetics at Children's Hospital Medical Center, does not agree with this assessment of the parents in the study. "It is most arrogant," he said, "to assume that parents are so

Illustrator In Air Force



Medical illustrating is not usually a career associated with the armed forces, but there are a few of these artists there. Sgt. James Raymond is one of some 25 of them assigned to the Air Force.

easily pressured that they cannot make their own decisions, and that investigations that develop such information should not be undertaken because parents cannot handle it."

"Right now, it's almost as if anyone wanting to do an investigation automatically must be thought to be unethical, and from that point on he must prove himself ethical," Dr. Walzer added.

"I know the consultation and the advice I have sought at this phase of the work, and the presentation I have made. I know that I am not unethical. I have a great sensitivity to that—that's the charge that has hurt the most."

Q. & A. Roundup of Data on XYY Karyotype

Medical Tribune Staff

Controversy has surrounded the XYY karyotype from the time early in the 1960s when geneticists first discovered that some men have this sex chromosome anomaly. If the Y is necessary for maleness—and that seems to be its only contribution—what is the effect of a double dose?

Investigations have produced some light, along with a great deal of heat. Presented here, in question and answer form, is a roundup of factual information about a much-debated human condition.

How common is the XYY chromosome abnormality?

It is present in about one per 1,000 liveborn males, according to pooled data from cytogenetic surveys of newborns conducted at medical centers in this country (Boston and New Haven), Scotland, Canada, and Denmark. Of the 28,582 male babies examined, 26 had the XYY karyotype.

Do later studies back up this finding?

Some do, some don't, but the current estimate based on pooled data from a number of countries is that about 2 per cent of men in penal institutions are XYYs. (Fre-

quency—the newborn males in the above surveys included 30 XYYs.

Sex chromosome abnormalities in liveborn females are considerably less common. For example, of the nearly 15,000 girl babies who were screened, only two had the XO complement while 13 were XXX.

The most common autosomal error—Down's syndrome—was found in 45 of the total of 43,558 newborns, or roughly one per 1,000.

What investigation first suggested an association between deviant behavior and the XYY karyotype?

In 1965, chromosome studies were made at a Scottish maximum security hospital of 315 of the 342 men housed in wings allocated to the mentally subnormal and mentally diseased. Nine of these men had the XYY pattern, thus indicating an incidence in this prison population of nearly 3 per cent.

Did Richard Speck—the man convicted of killing eight Chicago nurses—have the XYY make-up?

No. An erroneous report to this effect gained wider circulation than did the subsequent correction.

A French murderer of the same era

definitely was XYY, however, and his chromosome pattern became a trial issue when the court appointed a commission to evaluate findings about this chromosome aberration. One commission member was geneticist Jerome Lejeune, codiscoverer of the cause of Down's syndrome.

show signs of deviant behavior.

As some geneticists have commented, if all XYYs were antisocial, the world wouldn't have enough jails.

Are XYY males fertile?

A number are known to have fathered children. There is apparently only a small risk that they will have an XYY son.

What about intelligence levels?

Since most studies have been made on men in mental and/or penal institutions, findings about intelligence are bound to be skewed. Even so, the intelligence range is known to be wide—from definitely subnormal to superior. Several studies in institutions not intended specifically for the mentally retarded, however, have shown that the

average IQs of men with the XYY karyotype are lower than those of XY controls in the same setting.

Is the XYY makeup linked to endocrine or neurologic abnormalities?

The experts' answers range flat "No" or "Yes" to "Nobod" or "It all depends." Most inv do agree than XYY males a in mental-penal institutions quency much greater than th ground" incidence of one p newborn males.

But as many investigators a child's behavior is influenced by numerous factors, including tions that occurred during fe at birth, social class, family parental supervision, genetic Instead of insisting on n nurture, they think the effect must be taken into account.

NEW
from Wyeth

wygesic

each tablet
contains

65 mg. propoxyphene HCl, U.S.P.
and
650 mg. acetaminophen, N.F.

Wyeth

Next In Consultation

DR. DANIEL BURDICK, Clinical Professor of Surgery, State University of New York Upstate Medical Center, Syracuse, N.Y.

discusses what's new and important in rehabilitation of the breast cancer patient, the postoperative care and exercise program, the role of the "mastectomy volunteers" in helping the patient adjust emotionally, care of the homolateral arm, and cosmetic restoration.

Report on XYY Screening Held Whitewash

Continued from page 1
committee on Medical Research a "whitewash."

In a report to the faculty, the committee stated that, in its opinion, Dr. Stanley Walzer, Assistant Professor of Psychiatry at Harvard, has behaved ethically and sensitively in the way in which he has conducted his

See Editorials, Page 11.
Also, One Man . . . and Medicine, Page 33.

program of examining the incidence of extra "Y" and "X" chromosomes in newborn boys, and studying the correlation, if any, of the abnormalities with behavior.

Because several of its members were concerned that the possible risks of the study might outweigh its benefits, the Harvard committee also announced that it has asked Dr. Walzer to meet with it to discuss changes that may lessen public criticism.

Dr. Walzer, has been under fire from a group of young Boston Scientists, calling themselves Science for the People, who have charged that boys were found to have XYY chromosome abnormality will be stigmatized for life by the study for possessing what the public has come to know as the "criminal chromosome."

The spokesman for the group, Jonathan Beckwith, Ph.D., a Harvard microbiologist, said that the findings, of the Medical Research Committee, "failed to deal in any way with the substantive objections to the XYY study which we have raised."

'Simply a Whitewash'

"The present recommendations are simply whitewash of an embarrassing situation; the objections to the study stand unanswered and a source of concern, not only within the Harvard community, but among the general public as well."

Dr. Beckwith and his colleagues—scientists from Harvard and the Massachusetts Institute of Technology—made their charges formally to the medical school last April. They have accused the study of being unscientific on the grounds that parents who are anxious about the effect of the XYY chromosome variation are bound to treat their youngsters in a negative way.

This, they say, is likely to increase the incidence of behavior problems, skewing the results of the study, and harm the child.

The study is unethical, they claim, because of the danger of stigmatizing the boy, because there is no therapy for chromosomal abnormalities, hence no clear-cut benefits to the families participating.

The group has also criticized the research project for manner in which mothers-to-be were asked to consent to the screening. Until recently, the woman was asked to sign the consent form when she was admitted to the hospital, often when she was in labor. The form asked only for permission to test the infant. When an abnormality was found, the parents were informed and asked to participate in the study.

Since the project has been under fire, the form has been rewritten and

now fully explains the investigation and its implications. It is given to the mother the day after the delivery and is explained by a member of the research staff.

The Boston Hospital for Women, where the work is being done, mails all the incoming patients a "Bill of Rights," which points out that she is under no obligation to participate in any study, and if asked to do so, she should consult her physician for guidance.

See Editorials, Page 11.

Also, One Man . . . and Medicine,

Page 33.

program of examining the incidence of extra "Y" and "X" chromosomes in newborn boys, and studying the correlation, if any, of the abnormalities with behavior.

Because several of its members were concerned that the possible risks of the study might outweigh its benefits, the Harvard committee also announced that it has asked Dr. Walzer to meet with it to discuss changes that may lessen public criticism.

Dr. Walzer, has been under fire from a group of young Boston Scientists, calling themselves Science for the People, who have charged that boys were found to have XYY chromosome abnormality will be stigmatized for life by the study for possessing what the public has come to know as the "criminal chromosome."

The spokesman for the group, Jonathan Beckwith, Ph.D., a Harvard microbiologist, said that the findings, of the Medical Research Committee, "failed to deal in any way with the substantive objections to the XYY study which we have raised."

'Simply a Whitewash'

"The present recommendations are simply whitewash of an embarrassing situation; the objections to the study stand unanswered and a source of concern, not only within the Harvard community, but among the general public as well."

Dr. Beckwith and his colleagues—scientists from Harvard and the Massachusetts Institute of Technology—made their charges formally to the medical school last April. They have accused the study of being unscientific on the grounds that parents who are anxious about the effect of the XYY chromosome variation are bound to treat their youngsters in a negative way.

This, they say, is likely to increase the incidence of behavior problems, skewing the results of the study, and harm the child.

The study is unethical, they claim, because of the danger of stigmatizing the boy, because there is no therapy for chromosomal abnormalities, hence no clear-cut benefits to the families participating.

The group has also criticized the research project for manner in which mothers-to-be were asked to consent to the screening. Until recently, the woman was asked to sign the consent form when she was admitted to the hospital, often when she was in labor. The form asked only for permission to test the infant. When an abnormality was found, the parents were informed and asked to participate in the study.

Since the project has been under fire, the form has been rewritten and

Q. & A. Roundup of Data on XYY Karyotype

Medical Tribune Staff

Controversy has surrounded the XYY karyotype from the time early in the 1960s when geneticists first discovered that some men have this sex chromosome anomaly. If the Y is necessary for maleness—and that seems to be its only contribution—what is the effect of a double dose?

Investigations have produced some light, along with a great deal of heat. Presented here, in question and answer form, is a roundup of factual information about a much-debated human condition.

How common is the XYY chromosome abnormality?

It is present in about one per 1,000 liveborn males, according to pooled data from cytogenetic surveys of newborns conducted at medical centers in this country (Boston and New Haven), Scotland, Canada, and Denmark. Of the 28,582 male babies examined, 26 had the XYY karyotype.

How does this incidence compare with that of other sex chromosome anomalies?

The less-publicized XXY pattern occurs with approximately the same

frequency—the newborn males in the above surveys included 30 XYYs.

Sex chromosome abnormalities in liveborn females are considerably less common. For example, of the nearly 15,000 girl babies who were screened, only two had the XO complement while 13 were XXX.

The most common autosomal error—Down's syndrome—was found in 45 of the total of 43,558 newborns, or roughly one per 1,000.

What investigation first suggested an association between deviant behavior and the XYY karyotype?

In 1965, chromosome studies were made at a Scottish maximum security hospital of 315 of the 342 men housed in wings allocated to the mentally subnormal and mentally diseased. Nine of these men had the XYY pattern, thus indicating an incidence in this prison population of nearly 3 per cent.

Do later studies back up this finding?

Some do, some don't, but the current estimate based on pooled data from a number of countries is that about 2 per cent of men in penal institutions are XYYs. (For-

Illustrator in Air Force



Medical illustrating is not usually a career associated with the armed forces, but there are a few of these artists there. Sgt. James Raymond is one of some 25 of them assigned to the Air Force.

easily pressured that they cannot make their own decisions, and that investigations that develop such information should not be undertaken because parents cannot handle it."

"Right now, it's almost as if anyone wanting to do an investigation automatically must be thought to be unethical, and from that point on he must prove himself ethical," Dr. Walzer added.

"I know the consultation and the advice I have sought at this phase of the work, and the presentation I have made, I know that I am not unethical. I have a great sensitivity to that—that's the charge that has hurt the most."

Yes. Admission procedures differ from place to place, and everyone is aware that only a small proportion of the people who commit antisocial acts wind up behind bars.

Additionally, it is thought that the tallness of the average XYY may be a factor in sentencing. Because of his size, he may be considered—perhaps unconsciously—more of a "threat" than the XY who has shown deviant behavior.

What is known about XYY males who are not in institutions?

Comparatively little, although the incidence of one per 1,000 newborn boys makes it obvious that XYYs are far from rare—and suggests that the great majority must be leading ordinary lives.

Reports from at least two surveys of noninstitutionalized men have indicated that those with an XYY karyotype did not have criminal records or

Did Richard Speck—the man convicted of killing eight Chicago nurses—have the XYY make-up?

No. An erroneous report to this effect gained wider circulation than the subsequent correction.

A French murderer of the same era definitely was XYY, however, and his chromosome pattern became a trial issue when the court appointed a commission to evaluate findings about this chromosome aberration. One commission member was geneticist Jerome Lejeune, codiscoverer of the cause of Down's syndrome.

Wednesday, January 15, 1975

MEDICAL TRIBUNE

Dr. Lejeune testified that "the bearer of an extra chromosome is a sick man," and noted the frequency of the XYY pattern among prisoners. But he then emphasized: "There is no such thing as a born criminal. It is not a chromosome which causes the commission of a crime but an ensemble of reactions along with an absence of control."

The trial's outcome? Conviction, with no official recognition of the chromosome defense—but a lighter-than-usual sentence.

What about intelligence levels?

Since most studies have been made on men in mental and/or penal institutions, findings about intelligence are bound to be skewed. Even so, the intelligence range is known to be wide

—from definitely subnormal to superior. Several studies in institutions not intended specifically for the mentally retarded, however, have shown that the

show signs of deviant behavior.

As some geneticists have commented, if all XYYs were antisocial, the world wouldn't have enough jails.

Are XYY males fertile?

A number are known to have fathered children. There is apparently only a small risk that they will have an XYY son.

Which specific behavioral problems have been linked to the XYY make-up?

There is general agreement that those early descriptions of XYY men as "criminal" or "supermale" or abnormally "aggressive" have proved inaccurate. Even in mental-penal institutions, XYYs are not overrepresented among the men considered dangerous and violent.

Some investigators believe that the chief characteristic is increased impulsiveness. This trait, in their view, seems to be a common denominator despite differences in background or intelligence.

Do XYY men look "different"?

No. But they are, as a rule, taller than would be expected from their family pedigrees. And some surveys indicate that they are afflicted with severe acne more frequently than are XY men.

Aren't institutional findings apt to be biased in some respects?

Yes. Admission procedures differ from place to place, and everyone is aware that only a small proportion of the people who commit antisocial acts wind up behind bars.

Additionally, it is thought that the tallness of the average XYY may be a factor in sentencing. Because of his size, he may be considered—perhaps unconsciously—more of a "threat" than the XY who has shown deviant behavior.

What is known about XYY males who are not in institutions?

Comparatively little, although the incidence of one per 1,000 newborn boys makes it obvious that XYYs are far from rare—and suggests that the great majority must be leading ordinary lives.

Reports from at least two surveys of noninstitutionalized men have indicated that those with an XYY karyotype did not have criminal records or

average IQs of men with the XYY karyotype are lower than those of XY controls in the same setting.

Is the XYY makeup linked to endocrine or neurologic abnormalities?

The experts' answers range from a flat "No" or "Yes" to "Nobody knows" or "It all depends." Most investigators do agree that XYY males are found in mental-penal institutions at a frequency much greater than the "background" incidence of one per 1,000 newborn males.

But as many investigators point out, a child's behavior is influenced by numerous factors, including complications that occurred during fetal life or at birth, social class, family stability, parental supervision, genetic makeup. Instead of insisting on nature or nurture, they think the effects of both must be taken into account.

Wyeth

each tablet
contains

65 mg. propoxyphene HCl, U.S.P.

and

650 mg. acetaminophen, N.F.

Next in Consultation

DR. DANIEL BURDICK, Clinical Professor of Surgery, State University of New York Upstate Medical Center, Syracuse, N.Y.

discusses what's new and important in rehabilitation of the breast cancer patient, the postoperative care, and exercise program, the role of the "mastectomy volunteers" in helping the patient adjust emotionally, care of the homolateral arm, and cosmetic restoration.

If there's good reason to prescribe for psychic tension...



**When, for example, reassurance and counseling
on repeated visits are not enough.**

Effectiveness is a good reason to consider Valium® (diazepam)

After you've decided that the tense, anxious patient can benefit from antianxiety medication, the question remains: which one?

Valium is one to consider closely. One that can help to relieve the psychic tension and anxiety. One that can minimize the patient's overreaction to stress. One that is useful when somatic complaints accompany tension and anxiety. In short, one that can work and work well to help bring the patient's symptoms under control.

Effectiveness. One good reason to consider Valium.

And should you choose to prescribe Valium, you should also keep this information in mind. Valium is generally well tolerated in the recommended dosage ranges. However, the physician should be aware of the possibility of side effects in some patients and should consult complete product information before prescribing.

**Please turn page for a summary
of product information.**

**Valium®
(diazepam)**
2-mg, 5-mg, 10-mg tablets



Valium® (diazepam)

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Tension and anxiety states; somatic complaints which are concomitants of emotional factors; psychoneurotic states manifested by tension, anxiety, apprehension, fatigue, depressive symptoms or agitation; symptomatic relief of acute agitation, tremor, delirium tremens and hallucinosis due to acute alcohol withdrawal; adjunctively in skeletal muscle spasm due to reflex spasm to local pathology, spasticity caused by upper motor neuron disorders, athetosis, stiff-man syndrome, convulsive disorders (not for sole therapy).

Contraindicated: Known hypersensitivity to the drug. Children under 6 months of age. Acute narrow angle glaucoma; may be used in patients with open angle glaucoma who are receiving appropriate therapy.

Warnings: Not of value in psychotic patients. Caution against hazardous occupations requiring complete mental alertness. When used adjunctively in convulsive disorders, possibility of increase in frequency and/or severity of grand mal seizures may require increased dosage of standard anticonvulsant medication; abrupt withdrawal may be associated with temporary increase in frequency and/or severity of seizures. Advise against simultaneous ingestion of alcohol and other CNS depressants. Withdrawal symptoms (similar to those with barbiturates and alcohol) have occurred following abrupt discontinuance (convulsions, tremor, abdominal and muscle cramps, vomiting and sweating). Keep addiction-prone individuals under careful surveillance because of their predisposition to habituation and dependence. In pregnancy, lactation or women of childbearing age, weigh potential benefit against possible hazard.

Precautions: If combined with other psychotropics or anticonvulsants, consider carefully pharmacology of agents employed;

drugs such as phenothiazines, narcotics, barbiturates, MAO inhibitors and other anti-depressants may potentiate its action. Usual precautions indicated in patients severely depressed, or with latent depression, or with suicidal tendencies. Observe usual precautions in impaired renal or hepatic function. Limit dosage to smallest effective amount in elderly and debilitated to preclude ataxia or oversedation.

Side Effects: Drowsiness, confusion, diplopia, hypotension, changes in libido, nausea, fatigue, depression, dysarthria, jaundice, skin rash, ataxia, constipation, headache, incontinence, changes in salivation, slurred speech, tremor, vertigo, urinary retention, blurred vision. Paradoxical reactions such as acute hyperexcited states, anxiety, hallucinations, increased muscle spasticity, insomnia, rage, sleep disturbances, stimulation have been reported; should these occur, discontinue drug. Isolated reports of neutropenia, jaundice; periodic blood counts and liver function tests advisable during long-term therapy.

Dosage: Individualize for maximum beneficial effect. **Adults:** Tension, anxiety and psychoneurotic states, 2 to 10 mg b.i.d. to q.i.d.; alcoholism, 10 mg t.i.d. or q.i.d. in first 24 hours, then 5 mg t.i.d. or q.i.d. as needed; adjunctively in skeletal muscle spasm, 2 to 10 mg t.i.d. or q.i.d.; adjunctively in convulsive disorders, 2 to 10 mg b.i.d. to q.i.d. **Geriatric or debilitated patients:** 2 to 2½ mg, 1 or 2 times daily initially, increasing as needed and tolerated. (See Precautions.) **Children:** 1 to 2½ mg t.i.d. or q.i.d. initially, increasing as needed and tolerated (not for use under 6 months).

Supplied: Valium® (diazepam) Tablets, 2 mg, 5 mg and 10 mg; bottles of 100 and 500. All strengths also available in Tel-E-Dose® packages of 100.

ROCHE
Roche Laboratories
Division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

Wednesday, January 15, 1975

MEDICAL TRIBUNE

The Only Independent Weekly Medical Newspaper in the U.S.

Medical Tribune

and Medical News
Published by Medical Tribune, Inc.

In Science, Derogation Is Not Debate

AS AN ARTICLE, "The XYY syndrome: a dangerous myth" (Jon Beckwith, Ph.D., and Jonathan King, Ph.D., *New Scientist* 64:474-Nov. 14, 1974) starts by projecting a significant scientific issue in a suitable forum. When it reviews genetic reports on challenges, methodologies and interpretation of studies in this area, it is a valid exercise of the scientific method. When it proceeds into a derogatory discourse and attack upon fellow scientists, it is not. Scientific derogation is not scientific debate.

One cannot justify condemnation by geneticists that "psychiatrists' intervention may be creating more problems for the children than would have occurred if they had been left alone." Is this not the arrogation of psychiatric expertise by geneticists? Are they expressing guilt feelings in regard to the Pandora's Box which they may believe they, as geneticists, have opened?

The authors' choice of those studies which they deem "to be worthwhile" is a matter of opinion; a charge as to studies which they believe pose "serious risk . . . or would be positively harmful to the subjects involved" is likewise based on an assumption that is projected in a manner damaging to science, their fellow scientists, to patients, and to themselves.

Despite any areas of agreement with some elements of their article, we can find no justification for the authors' going beyond the realm of scientific debate to derogatory ad hominem attacks, and even less for carrying such attacks from the forums of science into the judicial arena in an attempt to stop the research of other investigators. To do so is to do exactly what the authors charge to others: "wasting society's resources on poorly conceived and ideologically" biased battles.

One can find the methodology of a study unacceptable without challenging the integrity or good faith of a fellow scientist with a differing opinion. It is as unacceptable as it is unbecoming to science to use one of its forums to charge "subtle coercion" on the part of others even as one uses the not-so-subtle coercion of the Jaw courts and sensational press publicity to halt the research of those with different beliefs. It is unfair to intimate without the strongest evidence that the other investigators' procedures constitute a dangerous "self-fulfilling prophecy". One need not accept a bland assertion

Such actions will delay the clarification of the influences of genetics as well as environmental factors on behavior. They will distract from and not add to a concentration on those aspects of our "social and economic structure" which generate medical as well as social and behavioral problems. A.M.S.

Whose Ox Is Gored By Surgery?

AN IRONIC conjunction of news stories announced a new heart transplant operation by Dr. Christian Barnard, i.e., implant of a second left heart, almost simultaneously with the death of Louis B. Russell, world's longest surviving heart recipient, who had undergone heart transplant surgery more than six years ago. The headlines of the new transplant story, "Barnard Is Eager To Try 2nd Heart Surgery Again" and "Barnard Is Eager for 2nd Operation," just do not convey the sense that it is the patient, not the surgeon, who is primarily at risk.

P.S. The operation was not done and the patient lives. In these days of informed consent it is all very well, indeed necessary, to tell the patient of the potential risks of surgical or medical intervention. When one takes another's life in one's hands, psyche and soma both demand solicitude. The cutting edge of what one says to a patient is no less sharp than the scalpel, and requires quite as much exercise in discretion and delicacy as what one does.

R.G.



"Sorry I'm late, but it took them about a week to determine I was legally dead."

©1975 Medical Tribune

LETTERS TO TRIBUNE

Medical Insanity?

In your "Editorial Capsules" (MT, Nov. 27) Harold C. Hodge, Ph.D. was quoted as follows: ". . . Fluoride is accepted as a safe and effective prophylactic agent in the prevention of dental caries whose benefits, strikingly apparent in childhood, continue into adult life with continued use." This statement encompasses the same political propaganda expounded over the years to physicians and dentists.

The true facts of the fluoridation hoax are revealed in the book "Fluoridation and Truth Decay" which I have co-authored with Gladys Caldwell of La Crescenta, Calif. The book exposes fluoridation as medical insanity and the greatest consumer fraud of this century.

PHILIP E. ZAMPAGNA, M.D.
Lawrence, Mass.

Ambulatory Surgical Care

I should like to comment on your article concerning ambulatory surgical facilities (MT, Nov. 13).

It should be emphasized that the movement for free standing ambulatory surgical care is growing throughout the United States. Those of us who are involved in it are terribly concerned over the same issues which bother Dr. Hinds and Dr. Welch. We, too, are concerned over the over utilization of such facilities and the quality controls that must be built into them to make them acceptable to the American public. The first meeting of the Society for the Advancement of Free Standing Ambulatory Surgical Care took place in Phoenix in early November and at that time we dedicated ourselves to the construction of standards of care which would be appropriate for facilities that are not associated with hospitals.

WALLACE A. REED, M.D.
Surgicenter
Phoenix, Ariz.

Surgicenter®

Your article (MT, Nov. 13) uses the term "Surgicenter" in referring to all outpatient ambulatory surgical facilities. "Surgicenter" is a registered name. We would greatly appreciate it if you would acknowledge this.

WALLACE A. REED, M.D.
Surgicenter
Phoenix, Ariz.

Blooper Erythematous

With all due respect to Dr. Freddy Homburger, (MT, Dec. 11), I too studied Latin. Not his seven and one-half years, but a mere four years.

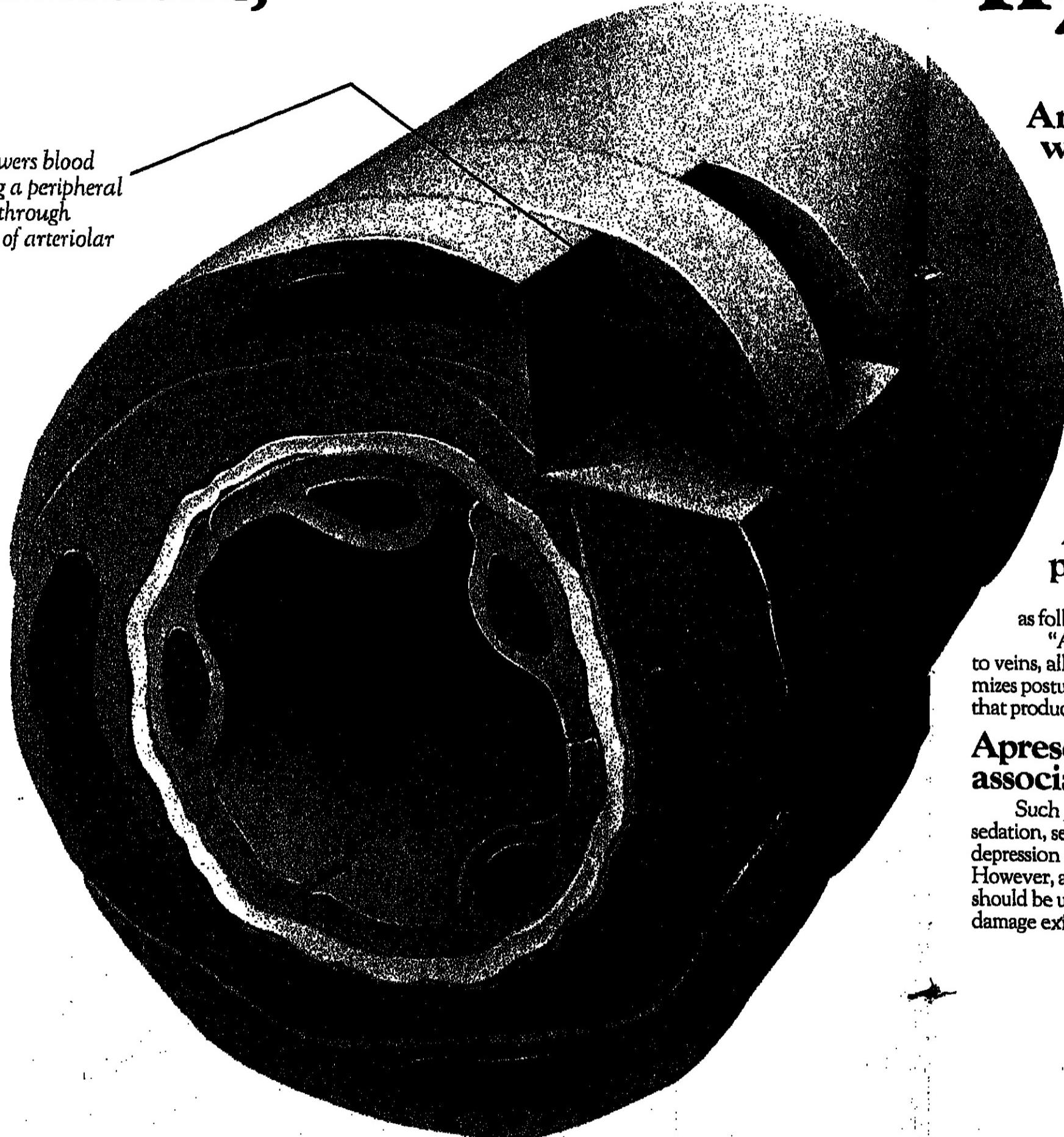
In college, I also studied, of all things, one year of GREK.

I think if Dr. Homburger would consult any medical dictionary—nay, even Webster—he would find the root "erythro" is Greek, meaning "red", and the root "os" is also Greek, meaning, in this context, "abnormal or diseased condition."

All of which proves the old adage, "The Greeks had a word for it." ALAN E. VAN SICKER, M.D.
Larchmont, New York

Apresoline®...where the action is in treating hypertension

Apresoline lowers blood pressure by exerting a peripheral vasodilating effect through a direct relaxation of arteriolar smooth muscle.



An antihypertensive idea whose time has come

Doctors who treat hypertension are increasingly interested in the one oral drug that has a mechanism of action exclusively its own — Apresoline.

Apresoline is in an antihypertensive class by itself because it reduces blood pressure through a unique mechanism. Acting at the ultimate site of hypertension, it directly relaxes arteriolar smooth muscle to decrease peripheral vascular resistance and arterial pressure. As blood pressure falls, there is an accompanying rise in cardiac output and rate.

Apresoline also maintains or increases renal and cerebral blood flow.

Apresoline minimizes postural hypotension

Nickerson¹ describes the action of Apresoline as follows:

"A preferential effect on arterioles, as compared to veins, allows the increase in cardiac output and minimizes postural hypotension; the latter is much less than that produced by agents blocking sympathetic nerves."

Apresoline avoids side effects associated with other agents

Such untoward reactions as drowsiness, lethargy, sedation, sexual dysfunction, and exacerbation of mental depression are not usually encountered with Apresoline. However, as with any antihypertensive agent, hydralazine should be used with caution where advanced renal damage exists.

Apresoline helps tailor the regimen to the patient

When Apresoline is added to an existing antihypertensive regimen, it introduces a different and complementary pharmacologic approach to the control of your patients' hypertension.

Apresoline thus affords the physician a variety of combinations with which he can construct regimens more closely molded to individual requirements. According to Freis,² such a combination of drugs, each with a different antihypertensive mechanism, is the most effective way to control blood pressure. This may also permit lower drug dosages.

Apresoline lends itself admirably to the contemporary antihypertensive rationale and its therapeutic goals: more vigorous and more effective control of blood pressure through a plurality of mechanisms.

Apresoline: used effectively in the VA studies

Apresoline was one of the three basic drugs used in two published VA cooperative studies.^{3,4}

References: 1. Nickerson M: Antihypertensive agents and the drug therapy of hypertension, In Goodman LS, Gilman A (eds): *The Pharmacological Basis of Therapeutics*, ed 4. New York, The Macmillan Company, 1970, p 729. 2. Freis ED: Hypertension: a controllable disease. *Clin Pharmacol Ther* 13:627-632, 1972. 3. Effects of treatment on morbidity in hypertension: Results in patients with diastolic blood pressures averaging 118 through 129 mm Hg. Veterans Administration Cooperative Study Group on Antihypertensive Agents. *JAMA* 202:1028-1034, 1967. 4. Effects of treatment on morbidity in hypertension II. Results in patients with diastolic blood pressure averaging 90 through 114 mm Hg. Veterans Administration Cooperative Study Group on Antihypertensive Agents. *JAMA* 213:1143-1152, 1970.

Next page: Apresoline (hydralazine) and the Hypertension Task Force

Apresoline® hydrochloride (hydralazine hydrochloride)

TABLETS

INDICATIONS
Essential hypertension, alone or as an adjunct.

CONTRAINDICATIONS
Hypersensitivity to coronary artery disease, mitral valve prolapse, and symptomatic heart disease.

WARNINGS
Chronic administration of doses over 400 mg per day may produce an arthritis-like syndrome lead-

ing to a clinical picture simulating acute systemic lupus erythematosus. This may occur at lower doses. Most of these reactions are reversible upon withdrawal of therapy; but long-term treatment with barbiturates may be necessary and residual damage may occur.

Use carefully in suspected coronary artery or peripheral vascular diseases, cerebral vascular accidents, and advanced renal disease. Postural hypotension may occur, and the pressor response to epinephrine may be reduced.

Use cautiously during prolonged therapy. Tissue studies are also indicated in the presence of any unusual findings.

Usage in Pregnancy
The drug should be used only when, in the judgment of the physician, it is deemed essential to the welfare of the patient.

PRECAUTIONS
Use cautiously in suspected coronary artery or peripheral vascular diseases, cerebral vascular accidents, and advanced renal disease. Postural hypotension may occur, and the pressor response to epinephrine may be reduced.

and addition of pyridoxine to the regimen if symptoms develop.

Blood dyscrasias, consisting of reduction in hemoglobin and red cell count, leukopenia, agranulocytosis, and purpura, have been reported rarely.

Such changes, however, often improve with therapy.

Periodic blood counts are advised during prolonged therapy.

SIDE EFFECTS
Common: Nausea, diarrhea, palpitations, anorexia, nausea, vomiting, dizziness, tachycardia, angina pectoris. Less frequent: Nasal congestion, fainting, lacrimation, conjunctivitis, peripheral neuritis,

evidenced by paresthesias, numbness, and tingling; edema; dizziness; tremors; muscle cramps; psychologic reactions characterized by depression, anxiety, confusion, or delirium; hypertension (including malignant hypertension); hepatitis; anemia, eosinophilia, and, rarely, hepatitis; convulsions; difficulty in micturition; dyspepsia; periorbital lymphadenopathy; splenomegaly; blood dyscrasias, including aplastic anemia, leukopenia, thrombocytopenia, and purpura; leukopenia, agranulocytosis, and purpura; hypotension; paradoxical pressor response.

DOSAGE
Initial therapy is gradually increasing dosage, adjust according to individual response. Start with 10 mg 4 times daily for the first 2 to 4 days. Increase to 25 mg 4 times daily for a while. If no response, further increase in dosage until a maximum dose of 20 mg 4 times daily. For maintenance, adjust dosage to lowest effective level.

Less incidence of toxic effects, particularly the L.E. phenomenon, is seen in the group of patients receiving large doses of Apresoline.

In a few resistant patients, up to 300 mg Apresoline daily may be required for a significant antihyper-

tensive effect. In such cases, a lower dosage of Apresoline combined with a thiazide, reserpine, or other may be considered. However, when combining therapy, individual titration is essential to insure the lowest possible therapeutic dose of each drug.

FORMS SUPPLIED
Tablets, 10 mg (pale yellow, dry-coated); bottles of 100 and 1000.

Tablets, 50 mg (deep blue, dry-coated); bottles of 100, 500, and 1000.

Tablets, 50 mg (blue, dry-coated); bottles of 100, 500, and 1000.

CIBA

Apresoline... (hydralazine) part of the Hypertension Task Force "plan of action"

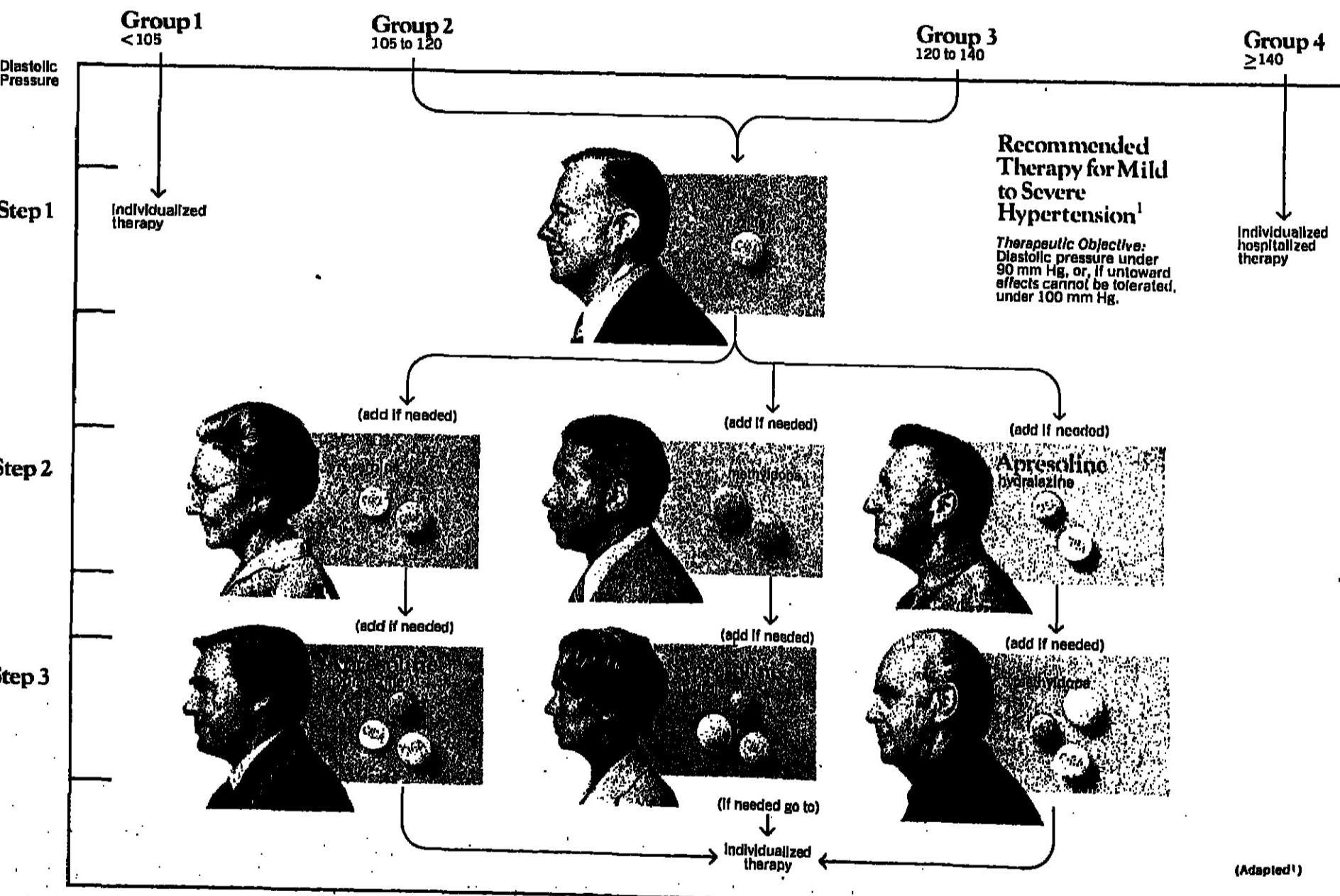
In September 1973, Task Force I of the National High Blood Pressure Education Program recommended a series of antihypertensive regimens for groups with hypertension ranging from mild to severe. Hydralazine—used in combination with sympathetic-inhibiting and/or diuretic antihypertensive

agents—was a specific recommendation for "second step" and "third step" therapy in patients with diastolic pressures ranging from 105 to 140 mm Hg.

Hydralazine played a prominent role in the Task Force regimens because of its compatibility with almost any antihypertensive regimen. For

Apresoline can be combined advantageously with nearly all diuretics and sympathetic inhibitors.

Reference: 1. Report of Task Force I, National High Blood Pressure Education Program: Recommended Data Base for Effective Antihypertensive Therapy, Sept 1, 1973; DHEW Publication No. (NIH) 74-593.



Apresoline® (hydralazine)
...acts directly at the ultimate site of hypertension
...brings something special to almost any antihypertensive regimen

For brief prescribing information, please see preceding pages.



C I B A

Wednesday, January 15, 1975

MEDICAL TRIBUNE

One Man...and Medicine

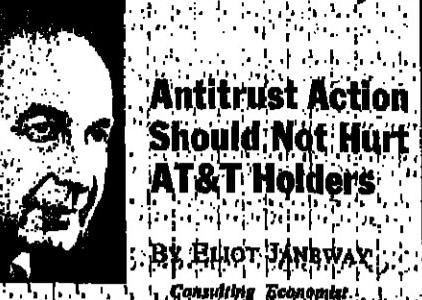
ARTHUR M. SACKLER, M.D.
International Publisher, Medical Tribune



New Breast Prosthesis



Tribune Economic Analysis



Neither stockholders nor bondholders of AT&T are in any danger of being victimized by the government's antitrust action.

The market levels of American Telephone and Telegraph's securities—its bonds, convertibles, and stocks—fluctuate in response to money conditions. When interest rates are high, all the securities of the telephone company suffer. When interest rates are low, all of them benefit.

Intolerable interest rates and onerous government regulation go together—it's a double or nothing proposition. Once the pendulum swings interest rates down again, it will turn government regulation constructive once more. The next bull market will start in response to this double push. It will accelerate by the time the government's antitrust complaint is ready for adjudication.

All the "money market" stocks follow the bond market. Telephone bonds lead it. Once the bond market becomes hospitable again for money looking for work, the stock market will celebrate its reunion with money coming back to play.

Telephone bonds and stock will continue paying their way by current money market standards and will start doing much better the moment money conditions become tolerable.

However, the government's action is guaranteed to help keep the investing public away in droves. There's no way for the stock market to regain its lost stride until the public returns.

Can we expect a cut in Federal taxes in 1975? Or has inflation replaced the Vietnam War?

Dr. M.B., Milwaukee, Wis.

There's no chance of a tax cut in 1975, although there is some chance of selective tax incentives. It's more realistic to say that the inflation started by the Vietnam war lives on after it.

Are electronic stocks a good buy today?

Dr. Ham Operator, New York

No stocks selling only yesterday at high multipliers of earnings and low returns on dividends are a good buy.

German firms, their dollars increased 30% by dollar devaluation, are investing heavily in the United States, and more heavily in South America and Asia. Are we not going to suffer from this?

Dr. Fred W., New Orleans

Not at all. Money invested in America will bring dollars back and tie them down, strengthening the dollar and helping to offset inflation. Money invested in South America and Asia will be lost, weakening Germany, our number one competitor in Europe.

"The Case of the XYY Chromosomes" RESEARCH AND PATIENTS RIGHTS - PART I

First, we had "full disclosure." Good!

Then, we had "informed consent." Good!

And now, we have "The Case of the XYY Chromosomes."

There seems to be a madness loose—a pseudo-science, fundamentally an anti-science, which justifies its anti-intellectual means by its proclaimed social goals.

The attacks of these anti-scientists seem to follow a simple format. Pick an emotionally labile situation, make emotionally laden charges in the name of The People, claim that The People need your protection . . . link up with like-minded attorneys . . . launch "consumer advocacy" litigation and do all this with sensational headline-provoking charges at a press conference. Mix these with an attack on the ethics of a sacrificial scapegoat. It makes no difference if he is a colleague or a fellow scientist, if his work is valid or cleared through all the requisite committees.

greater sensitivity in the area of genetic medicine as one recalls our experience with sickle cell anemia—the blasts of national publicity and screening projects, the unfulfilled hopes and the ultimate unhappy residue of fear and dissatisfaction.

If one looks closely at the XYY case in Boston, one comes to some rather disturbing conclusions. The present protestors challenge the ethics of research in the early stages of life. Protestors from the other end of the political spectrum have just recently constricted, if not brought to a halt, studies involving both human fetus and fetal tissue. We have previously acknowledged the rights of the "Right-To-Life" groups to hold to their beliefs and to their own dogmas even as we have questioned their right to impose either or both upon those who have other beliefs and convictions. In the last few years research in mentally defective children has been attacked. The question of "informed consent" for any child has been raised. Clearly, as to "informed consent" for children, we enter a legal thicket of problems—who can give consent for the nonviable fetus, the unborn child, the newly born child or, for that matter, any child? It can be argued that the rights of an individual child cannot be placed in jeopardy, even by the child's parents.

Potential for Harm

The danger of this position is quite clear; under such circumstances one can deny to any minor not only participation in research but the potential benefits of such research because there is a potential for harm in virtually all therapeutic procedures. Such a *reductio ad absurdum* can undermine many preventive and prophylactic health measures, resting as they do on immunologic procedures. Even now, fear of such challenges have restricted research and therefore the determination of proper infants' and children's doses in a wide range of new drugs.

As we have said before, the ultimate end of such an attitude is to guarantee to my children a very questionable right—the right to suffer and die. I object to the preservation of such a dubious right.

Next Week

Dr. Sackler discusses research and patient's rights, full disclosure, and what true "science for people" calls for.

Sitting pretty for years to come...

Gentle in bringing patients down to normotensive levels, Esidrix will continue to "sit right" with many of the mild hypertensives for whom you prescribe it. Indeed it can mean years and years of even, uneventful control.

Esidrix. It is still unsurpassed as a basic diuretic/anti-hypertensive. And many patients with edema rarely need a more potent diuretic.

Contraindications include anuria. Use cautiously in patients with impaired renal or hepatic function.

Esidrix® (hydrochlorothiazide) for year-after-year control of mild hypertension



Esidrix® (hydrochlorothiazide)

INDICATIONS

Hypertension and edema.

CONTRAINDICATIONS

Anuria; hypersensitivity to this or other sulfonamide-derived drugs. The routine use of diuretics in otherwise healthy pregnant women with or without hypertension is contraindicated and possibly hazardous.

WARNINGS

Use with caution in severe renal disease. In patients with renal disease, thiazides may precipitate or worsen the effects of the drug may develop in patients with impaired renal function. Thiazides should be used with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte imbalance may precipitate hepatic coma. Transient elevation of serum creatinine may occur with the action of other antihypertensive drugs. Potassium-sparing diuretics should be used with caution in patients with a history of allergy or bronchial asthma. Hypokalemia may develop with thiazides as with any other potent diuretic, especially during brisk diuresis, when severe cirrhosis is present, or during concomitant administration of steroids or ACTH.

Sensitivity reactions are more likely to occur in patients with a history of allergy or bronchial asthma. Hypokalemia may also contribute to hypokalemia. Digitalis toxicity may exaggerate metabolic effects of hypokalemia especially with reference to myocardial activity.

Any chloride deficit is generally mild and usually requires no specific treatment except under extraordinary circumstances (as in liver disease or prolonged parenteral nutrition). Diabetic hypoglycemia may occur in ketoacidosis. In either case, appropriate therapy is water restriction rather than reduction of salt, except in rare instances when the hypoglycemia is life-threatening. In actual salt depletion, appropriate replacement is the therapy of choice.

Nursing Mother: Thiazides cross the placental barrier and appear in cord blood and breast milk.

PRECAUTIONS

Periodic determination of serum electrolytes to detect possible electrolyte imbalance should be performed at appropriate intervals. Observations for clinical signs of fluid or electrolyte imbalance and hypokalemia. Serum and urine electrolyte determinations are particularly important when the patient is receiving potassium-sparing diuretics or parenteral fluids. Medication such as digitalis may also influence serum electrolytes. Warning signs and dryness of mouth, thirst, weakness, lethargy, drowsiness, restlessness, muscle pains or cramps, insomnia, nausea, vomiting, tachycardia, and gastrointestinal disturbances such as diarrhea or vomiting.

Hypokalemia may develop with thiazides as with any other potent diuretic, especially during brisk diuresis, when severe cirrhosis is present, or during concomitant administration of steroids or ACTH.

Interference with adequate oral intake of electrolytes will also contribute to hypokalemia. Digitalis toxicity may exaggerate metabolic effects of hypokalemia especially with reference to myocardial activity.

Any chloride deficit is generally mild and usually requires no specific treatment except under extraordinary circumstances (as in liver disease or prolonged parenteral nutrition). Diabetic hypoglycemia may occur in ketoacidosis. In either case, appropriate therapy is water restriction rather than reduction of salt, except in rare instances when the hypoglycemia is life-threatening. In actual salt depletion, appropriate replacement is the therapy of choice.

Transient elevations in plasma calcium may occur in patients receiving thiazides, particularly in those with hyperparathyroidism. Pathological changes in the parathyroid gland have been reported in a few patients receiving thiazides.

Hyperuricemia may occur or uric acid may be precipitated in certain patients. Insulin requirements in diabetic patients may be increased, decreased, or unchanged. Latent diabetes may develop during thiazide administration.

Thiazide drugs may increase the responsiveness to tubocurarine. The antihypertensive effect of the drug may be enhanced in the post-sympathectomy patient. Thiazides may decrease arterial responsiveness to norepinephrine. This is not sufficient to preclude the effectiveness of the pressor agent for therapeutic use.

If nitrogen retention indicates onset of progressive renal impairment, consider withholding or discontinuing diuretic therapy. Thiazides may decrease serum PBI levels without signs of thyroid insufficiency.

ADVERSE REACTIONS

Gastrointestinal:—anorexia, gastric irritation, nausea, vomiting, cramping, diarrhea, constipation, jaundice (intrahepatic cholestatic), pancreatitis, hepatitis.

General:—dizziness, vertigo, paresthesia, headache, asthenia, malaise, dermatologic.

Hypersensitivity:—purpura, photosensitivity, urticaria, necrotizing angitis, Stevens-Johnson syndrome, and other hypersensitivity reactions.

Hematologic:—leukopenia, agranulocytosis, thrombocytopenia, aplastic anemia.

Orthostatic hypotension:—orthostatic hypotension, syncope.

Other:—hypoglycemia, glycosuria, hyperuricemia,

muscle spasm, weakness, restlessness. Whenever adverse reactions are moderate or severe, reduce dosage or withdraw therapy.

DOSEAGE

Individual dosage by titrating for maximum therapeutic response at the lowest possible dose.

Initial:—Usual dose 75 mg daily.

Maintenance:—After initial dose, dose is adjusted downward to as little as 25 mg or upward to as much as 100 mg daily.

Combined therapy:—When necessary, other antihypertensives may be added gradually and with caution because of the potential antagonism of this drug. Doses of ganglionic blockers should be reduced.

Edema:—Initial—25 to 200 mg daily for several days.

Maintenance:—25 to 100 mg daily or intermittently. Refractory patients may require up to 200 mg daily.

Tablets:—50 mg (yellow, scored); bottles of 30, 60, 100, 1000, 5000 and Accu-pak blister units of 100.

Tablets:—25 mg (pink, scored); bottles of 100, 1000 and 5000.

Consult complete literature before prescribing.

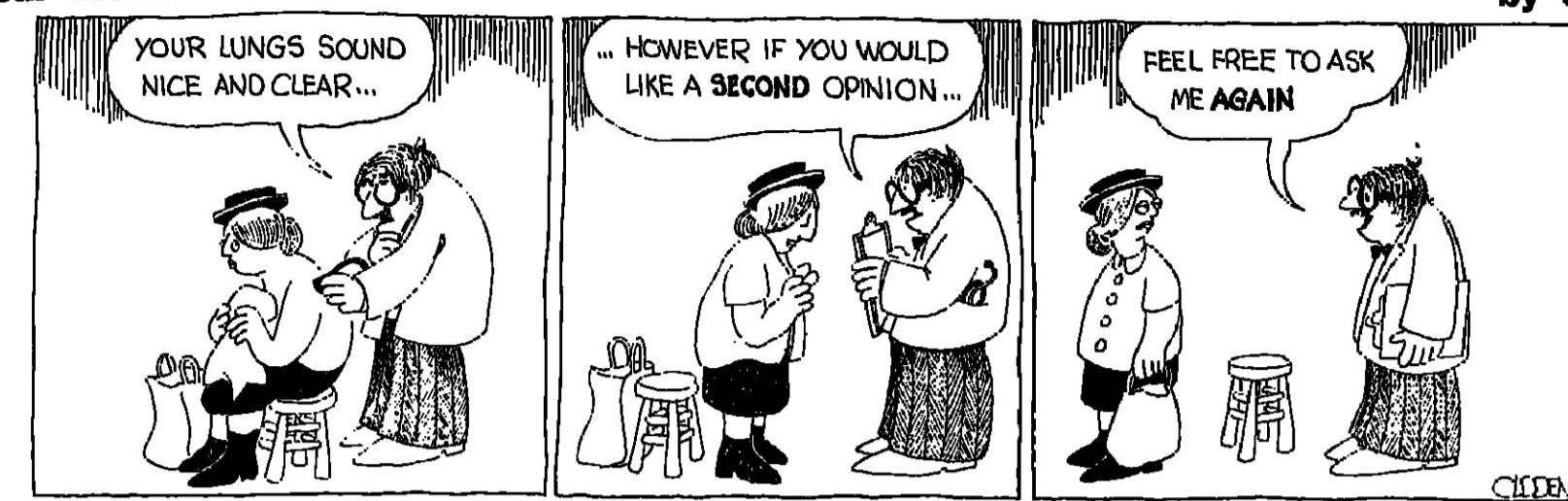
CIBA Pharmaceutical Company

Division of CIBA-GEIGY Corporation

Summit, New Jersey 07901

C I B A

Clinical Trials



MEDICAL TRIBUNE SPORTS REPORT

Blind Swiss Physiotherapist Developed Skiing for Blind

Medical Tribune World Service

GENEVA—A blind physiotherapist can take much of the credit for the fact that skiing has become a sport that can be enjoyed by the blind.

Roger Allemand lost his sight as a result of an accident during military service when he was 21. In 1969 he founded the *Groupement Romand des Skieurs Aveugles* (G.R.S.A.—Organization for Blind Skiers) in French Switzerland.

"To begin with I was president, secretary, treasurer—everything in one," he said.

Now his techniques are being studied in other countries, including the United States.

The G.R.S.A. has some 25 blind or partially sighted members and a panel of 50 instructors. With some financial help from the Swiss Government it arranges instruction and runs several group meetings and activities, including an annual camp lasting one week.

Exacting Course for Instructors

All the instructors are certified by the Swiss Ski School and have taken a special two-day course in instructing the blind. According to one newly qualified instructor, the course is "very exacting, requiring great powers of concentration."

The G.R.S.A. method stresses safety. Both pupil and instructor wear special parkas—yellow with a black band for the blind pupil and red with a black band for the instructor, both with the distinctive badge of the organization on the left sleeve. The instructor keeps about 1 M. behind his pupil and guides him every few seconds with verbal instructions, based to some extent on the principles used in aviation.

Pierre, forward 10 o'clock" indicates to the skier, who is assumed to be facing 12 o'clock, the direction he must take.

Dr. Salamagne presented preliminary findings of recent work with the

administration of a muscle relaxant, pancuronium, prior to induction of anesthesia at high dosage. A mild dose of diazepam or thiopental sodium was given before the pancuronium for patient comfort. No definitive conclusions could be presented because of the limited number of cases so far, but the general impression, Dr. Salamagne

said, was that it may be a useful procedure.

High dosages of fentanyl were found to produce persistent deep respiratory depression, lasting three or four hours after the final injection, which required respiratory assistance.

This was not considered important, however, since the patient benefits for several hours from the residual sedation.

Neuroleptic Analgesia Is Used in France In Open Heart Surgery With Good Results

Medical Tribune World Service

MEXICO CITY—Good results with neuroleptic analgesia in open heart surgery were reported by a French anesthesiologist in 2,000 patients. Droperidol was used in association with phenoperidine in 1,900 operations and with fentanyl in 100. The combinations were found to be satisfactory in maintaining stability of cardiac output with a lowering of peripheral vascular resistances, and particularly favorable in coronary artery surgery.

Experience in some 8,000 open heart operations at the Faculté Broussais Hôtel Dieu, Université de Paris, was described by Dr. Jean Claude Salamagne, Professor of Anesthesiology, to the First International Congress of Anesthesiology here.

Before he puts on a ski, however, he must undergo some physical preparation. The G.R.S.A. holds an autumn meeting at which all new members receive instructions in this regard and are given a cassette describing simple exercises. During the season they ski on average once a week.

Blind people learn fast, Mr. Allemand

Medicine on Stamps

Joseph Kerwin



Stamp: Minjur Publications, Inc., New York

IMMATERIA MEDICA

By DUDLEY STRAUSS

Odds and Ends

• Seekers of a Cause, or Romanian patriots, may be interested in the following letter to the editor of *Lancet*:

"BABES OR PETRI DISH?"

"Sir,—In his first treatise on bacteriology, published in May, 1885, Victor Babes described the use of a low-walled jar for bacterium isolations. In the same year Nicati and Rietsch also mentioned these jars, which they used for the isolation of the cholera vibrio. In 1887 Petri described his use, on a large scale, of this type of low-walled jar, which became known as the Petri-Schalen or Petri dish. Later, Fränkel supported Babes's assertion that the credit for the conception and application of this idea should go to Babes and not to Petri. Is it now too late to try to claim this discovery for Romania?

Stefan S. Nicolau Institute of Virology, 285 Sos. Mihai Bravu, Bucharest, Romania.

VINCENT T. BABES."

We confess we were attracted to it by our failure to recognize the correct meaning of "Babes."

• Anyone in New York on January 17 might be interested in the Scientific Program being presented by the New York Center for Psychoanalytic Training:

"Dr. Benjamin Brody: The Sexual Meaning of the Axilla (Armpit)."

• Mephithophiles may be interested to learn that two scientists from the University of New Hampshire have determined that the wrong chemical has been blamed for the offensive odor produced by skunks. (You maybe wondering what a mephiti- was?)

The guilty ingredients turn out to be crotyl mercaptan, isopentyl mercaptan, and methyl crotyl disulfide, and not innocent and wrongly accused n-butyl mercaptan.

• "WASHINGTON (UPI)—The Agriculture Department today announced a price support program for the 1974 crop of lung nuts, but officials noted quickly that farmers probably will not harvest any lung nuts this year."

All professional-grade staff of United Nations organizations in Europe are paid in U.S. dollars.

And that's the way it goes, these days.